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SOURCE Radiotekhnika, No 5, 1949.

NEW BOOKS ON RADIO ENGINEERING

General Radio Engineering Course, (Obshchiy kurs radiotekhniki), G. V. Voyshvillo, Military Publishing House, Ministry of Armed Forces USSR, Moscow, 1948, 451 pages, 13 rubles

Textbook for those faculties of higher military educational establishments where practical instruction is given. Discusses general theory of oscillating systems, electrovacuum apparatus, propagation of radio waves, generators, transmitters, feeders, antennae, and receivers. Considerable attention paid to latest technology on cavity resonators, generation and reception of ultra-high frequencies, wave guides, special types of antennae, etc.

Radio Engineering, (Radiotekhnika), M. I. Zemlyanov, Publishing House of Military Order of Lenin Academy of Armored Tank and Mechanized Troops of Soviet Army, 1948 (2d edition, revised and enlarged), 282 pages, 20 rubles

Describes physical processes in AC circuits. Gives basic laws of radio engineering. Examines processes in oscillating circuits, electronic tubes, tube generators and transmitters. Describes receiving and transmitting apparatus. Gives examples of low-power radio station circuits.

Electrovacuum Apparatus, (Elektrovakuumnyye pribory), Svyaz'izdat, 1949, 519 pages, 22 rubles 50 kopeks

Revised edition of textbook previously published for higher institutes of electrical and power engineering. Examines physical processes in electrovacuum apparatus and gives their general theory. Revision has been considerably enlarged due mainly to descriptions of processes occurring in electrovacuum apparatus at superhigh frequencies.

Collection of Scientific Works of Central Scientific Research Institute of Telecommunications, (Sbornik nauchnykh trudov TsNIIS), Ministry of Communications, published by Svyaz'izdat, 1949, 12 rubles

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S. V. Borodich gives analysis of interference resistance in pulse-time modulation. V. P. Minashin and N. I. Kalashnikov present engineering calculations of cavity circuits used in microwave range. Theory and design of symmetrical trigger circuit is given by S. A. Vladimirov. Formulas for selecting designs for high-frequency cables are derived by V. N. Kuleshov. Analysis of various methods for symmetrization of communication cables is given by V. O. Shvartsman. Problem of selection of optimum lengths of boosting sections of cable lines is examined by N. N. Akinfiyev. A. S. Blokhin gives analysis of nonlinear distortions caused by cores of coils and transformers. Practical method of designing narrow-band filter of simplest bridge type is given by Yu. R. Gintz.

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